Ist and final Bill

Work Code No:-006-19-000050
Est Cost :- 20.00. lakhs.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

rial No. Construction of culverts and Improvements of Drains 497437
ame of Work at Dasarahalli, Surrounding area in ward No.06
ame of Contractor of nature of Agency Byatarayanapura Sub division
ate of commencement of work D.O. Recording, 20-11-2019

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work order No :-	BBMP/EE/BTP/WO/80/2019-20					
	Name of Contractor	Sri. N. Manjunath No.1 Thirumenahalli Jakkur Post Yelahanka Hobli Bangalore-64					
1	Earth work excavation by manual means in ordinary soil. Soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m. excavated surface leveled and sides neatly dressed. the diposed earth to be leveled neatly after breaking						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of clods complete as per specifications						
	As per Pre Measurement Recorded vide						
	Rate: 119.54 Page no. 497491 TO 497492					301.00 M3	35982.0
2	Providing and laying in position plain cement concrete of mix M 1:4:8 with OPC cement at 180 Kgs with 40 and down size graded granite metal coarse aggregates @ 0.892 Cum and fine aggregates @ 0.57 Cum machine mixed. Concrete laid in layers not exceeding 15 cms thick well compacted. In foundation and plinth including cost of all meterials, labour, HOM of machinery, curing						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497438

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f Work ..... From..... To.....

f Contractor of nature of Agency .....

commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Complete as per Specification and direction of the Engineer-in-Charge of work,						
As per Pre Measurement Recorded vide Page No. 497492 TO 497494						
Rate: 4691.54					38.79 M3	181985.00
Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:6. Stone hammerd dressed in courses not less than 20 cms high. bond stones at two m apart in each course including cost of materials						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refere to la Measur
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	labour. Curing complete as per specification,						
	1) Narayana pu College Near Dasarahalli	2	9.00	0.50	0.50	4.50	
	2) Near Aruns House Dasarahalli	2	7.05	0.50	0.50	3.53	
	3) Muni Kem Panna Badavane Dasarahalli	2	7.70	0.50	0.50	3.85	
	4) Maruthy layout 8th main Near PG	2	6.50	0.50	0.50	3.25	
	5) —"— 3rd A cross.	2	6.55	0.50	0.50	2.95	
	6) —"— —"— 7th main	2	6.55	0.50	0.45	2.95	
	7) —"— 5th A Cross L/S	2	7.25	0.50	0.45	3.26	
	8) —— " —— R/S	2	5.95	0.50	0.45	2.68	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497439

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f Work ..... From..... To.....

of Contractor of nature of Agency .....

commencement of work .....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
9) Maruthy Sami Road R/S 4th cross	2	6.00	0.50	0.45	2.70	
10) —"— L/S	2	6.50	0.50	0.45	2.95	
11) —"— 5th cross	2	6.50	0.50	0.45	2.95	
12)	2	7.00	0.50	0.50	3.50	
13)	2	6.00	0.50	0.45	2.70	
14)	2	6.50	0.50	0.45	2.93	
15)	2	7.25	0.50	0.50	3.63	
16)	2	6.00	0.50	0.50	3.00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refere to la Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	17)	2	6.75	0.50	0.50	3.38	
	18)	2	6.80	0.50	0.50	3.40	
	19)	2	7.00	0.50	0.50	3.50	
	20)	2	8.00	0.50	0.50	4.00	
	21)	2	7.50	0.50	0.50	3.75	
	22)	2	7.00	0.50	0.50	3.50	
						75.68 M3	
	limited to Tender			Qty		71.82 M3	
	Rate: 4226.25						303529

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497440

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
4	Providing and constructing granite/trap/basalt size stone Masonry in basement with cement mortar 1:6 edges of stones chistle dressed in courses not less than 15cms high. bond stones at two m. apart in each course including cost of meterials, labour. curing complete as per specifications						
	1) Narayana Pu College.	2	9.00	0.45	0.45	3.65	
	2) Near Aruns House	2	7.05	0.45	0.45	2.86	
	3) Muni Kempanna Badavane	2	7.70	0.45	0.45	3.12	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) Maruthi layout 8th main	2	6.50	0.45	0.45	2.63	
	5) Maruthi 3rd 'A' cross	2	6.55	0.45	0.45	2.65	
	6) —— " ——	2	6.55	0.45	0.45	2.65	
	7) —— " —— 5th 'A' cross	2	7.25	0.45	0.45	2.94	
	8) —— " ——	2	5.95	0.45	0.45	2.41	
	9) Maruthi Sanil Road 4th cross	2	6.00	0.45	0.45	2.43	
	10) Maruthi Sanil Road —— " ——	2	6.50	0.45	0.45	2.63	
	11) —— " —— 5th cross	2	6.50	0.45	0.45	2.63	
	12)	2	7.00	0.45	0.45	2.84	
	13)	2	6.00	0.45	0.45	2.43	
	14)	2	6.50	0.45	0.45	2.63	
	15)	2	7.25	0.45	0.45	2.94	
	16)	2	6.00	0.45	0.45	2.43	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497441

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	17)	2	6.75	0.45	0.45	2.73	
	18)	2	6.80	0.45	0.45	2.75	
	19)	2	7.00	0.45	0.45	2.84	
	20)	2	9.00	0.45	0.45	3.65	
	21)	2	7.50	0.45	0.45	3.04	
	22)	2	7.00	0.45	0.45	2.84	
						61.70 M3	
	limited to Tender Qty				:	53.87 M3	271607.00
	Rate: 5041.89						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5	Providing removing Centering. Shuttering. strutting. Propping etc.. and removal of form work for sides and soffits of beams. beam haunchings cantilever girders. bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complets as per specifications.						
	As per pre Measurement Recorded vide Page No. 497494 to 497497						
	Rate: 268.51					141.30 M²	37940.0

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497442

No. .....

of Work ..... From..... To.....

of Contractor of nature of Agency .....

f commencement of work .....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs. with 20mm and down size graded granite metal course aggregates @ 0.84 cum and fine aggregates @ 0.56 cum. machine mixed. concrete laid in layers not exceeding 15cms. thick well compacted. in foundation. plinth and cills. Including cost of all materials, labour HOM of machinery. curing complete as per specifications.						
1) Narayana pu college	2	9.00	0.45	0.15	1.22	
for Ramp	2	10.00	1.00	0.20	4.00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2) Near Aruns House, for Ramp	2	7.05	0.45	0.15	0.95	
		2	8.00	0.60	AV 0.20	1.92	
	3) Munikempanna Badavane for RAMP	2	7.70	0.45	0.15	1.04	
	4) Marathy layout 8th main PG	2	8.00	0.50	0.30	2.40	
		2	6.50	0.45	0.15	0.88	
	5) Marathy layout 3rd 'A' cross	2	6.55	0.45	0.15	0.88	
	6) —"— 7th Main	2	6.55	0.45	0.15	0.88	
	7) —"— 5th 'A' cross	2	7.25	0.45	0.15	0.98	
	8) —"—	2	5.95	0.45	0.15	0.80	
	9) —"— 4th cross	2	6.00	0.45	0.15	0.81	
	10) —"—	2	6.50	0.45	0.15	0.88	
	11) —"— 5th cross	2	6.50	0.45	0.15	0.88	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497443

No. .....

of Work ..... From..... To.....

of Contractor of nature of Agency .....

of commencement of work .....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
12)	2	7.00	0.45	0.15	0.95	
13)	2	6.00	0.45	0.15	0.81	
14)	2	6.50	0.45	0.15	0.88	
15)	2	7.25	0.45	0.15	0.98	
16)	2	6.00	0.45	0.15	0.81	
17)	2	6.75	0.45	0.15	0.91	
18)	2	6.80	0.45	0.15	0.92	
19)	2	7.00	0.45	0.15	0.95	
20)	2	9.00	0.45	0.15	1.22	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to Measur No of of c
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	21)	2	7.50	0.45	0.15	1.01	
	22)	2	7.00	0.45	0.15	0.95	
						28.89 M3	
	limited To Tender Qty					28.73 M3	
	Rate: 4881.89					Total : 140257	
7	Providing Flush pointing to square rubble. Course or uncourse Stone masonry with cement mortar 1:3 20mm deep. after raking joints to depth of 20mm lineiy lining. Including cost of materials, labour, Curing Complete as Per specifications.						
	1)	2	9.00	0.45	–	8.10	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497444

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e of Work ..... From..... To.....

e of Contractor of nature of Agency .....

of commencement of work .....

	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
2)		2	7.05	0.45	–	6.35	
3)		2	7.70	0.40	–	6.16	
4)		2	6.50	0.40	–	5.20	
5)		2	6.55	0.40	–	5.24	
6)		2	6.55	0.40	–	5.24	
7)		2	7.25	0.40	–	5.80	
8)		2	5.95	0.40	–	4.76	
9)		2	6.00	0.40	–	4.80	
10)		2	6.50	0.40	–	5.20	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	11)	2	6.50	0.40	—	5.20	
	12)	2	7.00	0.40	—	5.60	
	13)	2	6.00	0.40	—	4.80	
	14)	2	6.50	0.40	—	5.20	
	15)	2	7.25	0.40	—	5.80	
	16)	2	6.00	0.40	—	4.80	
	17)	2	6.75	0.40	—	5.40	
	18)	2	6.80	0.40	—	5.44	
	19)	2	7.00	0.40	—	5.60	
	20)	2	9.00	0.40	—	7.20	
	21)	2	7.50	0.40	—	6.00	
	22)	2	7.00	0.40	—	5.60	M2
						123.49	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497415

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
of commencement of work .....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
limited to tender qty				=	119.70 M2	
Rate: 194.03					Total	23225.00

Providing and laying in position reinforced cement concrete of Design mix M20 OPC cement @ 320 kgs. with 20mm and down size graded granite metal coarse aggregats @ 0.69 cum and fine aggregates @ 0.460 cum with super plasticsers @ 3 liters confirming to IS 9103-1999 reafirmed 2008 machine mixed.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref to Meas
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	Concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings. Pedastals, retaining walls, walls (any thickness) including attached pilasters, columns pillars, posts struts buttress bed blocks, anchor blocks & plinths etc.. Including cost of materials, labour, Hom of Machinery, Curing. Complete but excluding cost of reinforcement as per specifications.						
1)		1	9.00	2.10	0.23	4.35	
2)		1	7.05	1.50	0.23	2.43	
3)		1	7.70	1.50	0.23	3.19	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497446

No. .....

of Work ..... From..... To.....

of Contractor of nature of Agency .....

of commencement of work .....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
4)	1	6.50	1.80	0.23	2.69	
5)	1	6.55	1.80	0.23	2.71	
6)	1	6.55	1.80	0.23	2.71	
7)	1	7.25	1.80	0.23	3.00	
8)	1	5.95	1.80	0.23	2.46	
9)	1	6.00	1.80	0.23	2.48	
10)	1	6.50	1.50	0.23	2.24	
11)	1	6.50	1.50	0.23	2.24	
12)	1	7.00	1.80	0.23	2.90	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to Measu
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	13)	1	6.00	1.50	0.23	2.07	
	14)	1	6.50	1.50	0.23	2.24	
	15)	1	7.25	1.80	0.23	3.00	
	16)	1	6.00	1.50	0.23	2.17	
	17)	1	6.75	1.50	0.23	2.33	
	18)	1	6.80	1.50	0.23	2.35	
	19)	1	7.00	1.80	0.23	2.90	
	20)	1	9.00	1.80	0.23	3.73	
	21)	1	7.50	1.80	0.23	3.11	
	22)	1	7.00	1.80	0.23	2.90	
						60.10	A3

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Reference to last Measurement 8

M. A. R. 57 (Rule 116)
Measurement Book

No. B

497447

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ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	limited to tender Qty					49.56 M3	
	Rate : 5203.73						257897.00
9	Providing T.M.T Steel reinforcement for R.C.C work including Straightening. cutting. bending. hooking. Placing in position. lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining member wherever necessary complete						

13

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refere to la Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	as per design (laps, hooks and wastage shall not be measured and paid) cost of materials labour. HOK of machinery complete as per Specifications.						
	As Per Pre Measurement Recorded vide Page No:- 497497 TO 497499						
	Rate: 64880.67					4.04 Tons	262118
10	Loading and unloading of stone boulders by manual means complete as per Specification.						
	Qty vide Item No. 1					301.00 M3	
	Rate: 119.54						35982.

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20/11/2019

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

497448

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CERTIFICATE:-					Total Rs. 15,31,834.00	
	Certifide that the above work done satisfactory.						
	20-11-2013 ಸಹಾಯಕ ಇಂಜಿನಿಯರ್ ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ						

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